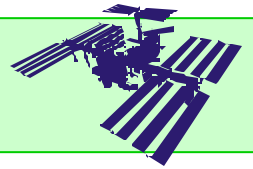
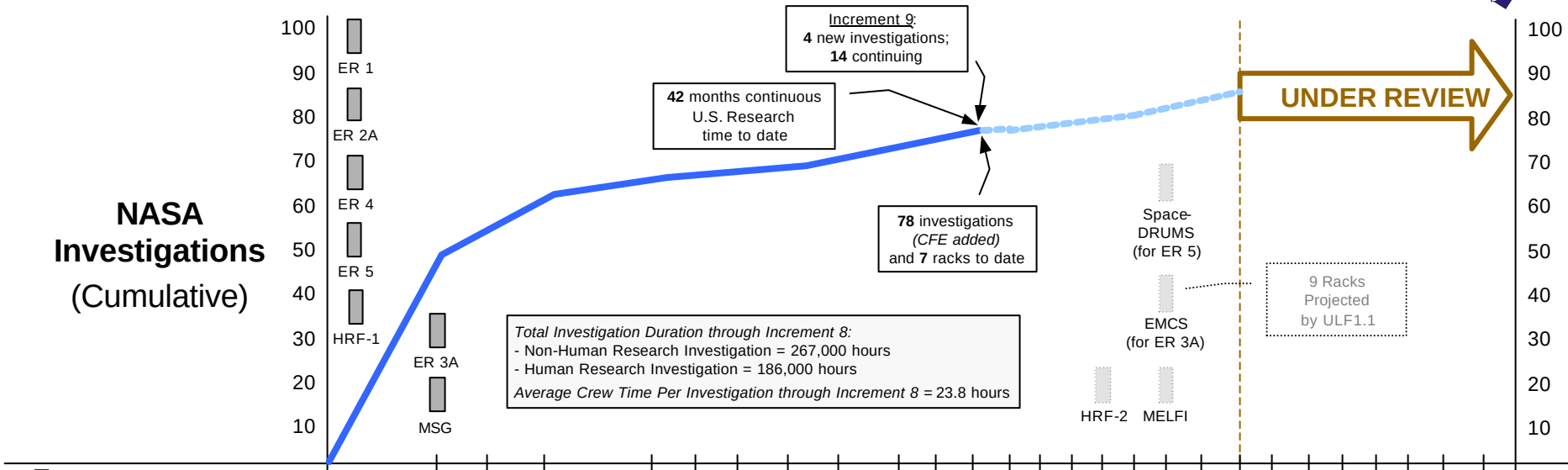
ISS Research Accommodations Status

17 September 2004 (Data through 31 August 2004) [POC: Dan Hartman/OZ]





= Payload Racks

A = Active Rack Isolation System (ARIS)
CFE = Capillary Flow Experiment
EMCS = European Modular Cultivation System
ER = EXPRESS Rack
HRF = Human Research Facility
MELFI = Minus Eighty-degree Lab Freezer for ISS
MLE = Middeck Locker Equivalent
MSG = Microgravity Science Glovebox

	Incrs 0-4	Incr 5	Incr 6	Incr 7	Incr 8	Incr 9 (to date)	Incr 10	Incr 11	Incr 12	Incr 13	Cumulative Actual Totals (thru Aug 31, '04)
											
Research Crew Time Total (US/Russian)	836 / 358	280 / 138	293 / 86	163 / 112	240 / 36	156 / 28 *(228 / 21)*	*(148 / 21)*	*(309 / 44)*			**2031 / 757 hrs**
Avg Crew Time Per Work Week (US/Russian)	13.0 / 5.6	13.6 / 6.6	14.7 / 4.3	7.3 / 5.0	9.6 / 1.4	9.2 / 1.6 *(9.5 / 0.9)*	*(6.6 / 0.9)*	*(13.7 / 1.9)*	Under Review		**11.6 / 4.5 hrs** (from Inc 3 to date)
Research Rack Mass to Orbit (kg)	2495	1138	0	0	0	0 *(0)*	*(724)*	*(1026)*			**3633 kg**
Research Resupply Mass to Orbit (kg)	1992	843	111	17	30	0.02 *(15)*	*(84)*	*(TBD)*			**2993 kg**
Research Supplies in Middeck (MLE)	38	15	6	N/A	N/A	N/A *(N/A)*	*(1)*	*(5)*			**59 MLE**

(XX) = most recent plan for entire Increment

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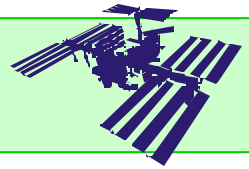

U.S Research Investigations Accommodated

U.S. Investigator: The principal person selected or approved by NASA to conduct a research investigation on-board ISS.

Number of Investigations (Cumulative): The cumulative number of U.S.-sponsored investigations carried out on ISS to date. This number also includes any international investigations conducted with U.S.-research resources as part of agreements with the ISS international partners. If an investigation requires experimentation on more than one Increment, it is designated a continuing investigation and counted only once. The cumulative number is updated at the date of each Shuttle flight to ISS, which is when new investigations are added.

Source: The Investigator Master List, maintained by the Lead Increment Scientist, provides the number per Increment. The Increment Scientist also provides the cumulative number per Shuttle flight.

Increment Length: The time period that an expedition crew is on orbit. It is measured from their launch date to their ISS undock date, and is documented in the Increment Definition Requirements Document (IDRD) Flight Program Definition matrix.

Continuous U.S. Research Time to Date: The time that the U.S. Laboratory has been continuously supporting research investigations, not counting short-term stoppages lasting only a few hours. The U.S. Lab began supporting research investigations in March 2001, and has done so continuously since then.

Source: The Increment Scientist assisted by investigation payload planners at NASA/Marshall Space Flight Center.

Research Crew Time Total and Avg Crew Time per Work Week: The time that the ISS crew performs research tasks for all U.S. and U.S.-sponsored investigations, including time both within and outside of the crews' schedulable work hours. Weekly times are the total Increment crew time divided by the number of Work Weeks.

Work Week: The number of 5-day Work Weeks in an Increment, excluding joint operations (Shuttle and Soyuz) and holidays.

Research Rack Mass: The mass of ISS racks dedicated to research carried, or planned to be carried, to orbit.

Research Resupply Mass: The mass of research resupply equipment carried, or planned to be carried, to orbit, not including resupply, that must be carried in the Shuttle middeck due to power or late stowage requirements.

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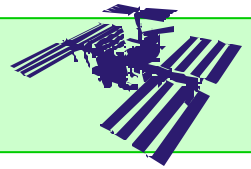

Research Supplies in Middeck (MLE): The number of research middeck lockers and other research supplies and equipment launched in the middeck on each shuttle flight to the ISS. Measured in middeck locker equivalent (MLEs), I.e., the number of volumes equal to the volume of a middeck locker. The middeck is used primarily to transport perishable research samples and equipment to and from the ISS.

During the Shuttle down-time following the Columbia STS-107 accident, all research supplies were launched on Soyuz or Progress vehicles. During this period, both volume (in MLEs) and mass (in kgs) were tracked. Both Requirements and Actuals are shown.

Most Recent Accommodation or Allocation: The amount most recently accommodated or allocated to research, published prior to the start of the Increment.